

ABSTRACT

A map which defines a relationship of an exhaust gas pressure P_2 at the outlet of a filter (13) to a load Q and rotation speed N_e of an engine (1) is prepared, and an exhaust gas pressure P_1 at the inlet to the filter (13) is determined from a differential pressure ΔP between the front and rear of the filter and the outlet pressure P_2 obtained by referring to the map. The inlet pressure P_1 determined in this manner is used to determine an exhaust gas volumetric flow rate Q_1 , and thus an accurate particulate accumulation SM , which is required to determine the need for regeneration of the filter (13), can be calculated.